MMM	MMM	TTTTTTTTTTTTTT	ннн	HHH	RRRRRRRR	RRRR	TTTTTTTTTTTTTT	LLL
MMM	MMM	††††††††††††††††	ННН	ННН	RRRRRRRR		TTTTTTTTTTTTT	
MMM	MMM	ŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤ	ННН	ннн	RRRRRRR		i i i i i i i i i i i i i i i i i i i	
MMMMMM	MMMMMM	111	ННН	ннн	RRR	RRR	777	
MMMMMM	MMMMMM	+++						FFF
		111	ННН	ннн	RRR	RRR	ŢŢŢ	ŕŕŕ
MMMMMM		!!!	ННН	HHH	RRR	RRR	ŢŢŢ	LLL
	MMM MMM	ŢŢŢ	ННН	HHH	RRR	RRR	TTT	LLL
	MMM MMM	111	HHH	HHH	RRR	RRR	TTT	LLL
MMM	MMM MMM	TTT	HHH	HHH	RRR	RRR	TTT	LLL
MMM	MMM	TTT	НИНИНИНИНИ		RRRRRRRR		ŤŤŤ	ĬĬĬ
MMM	MMM	TTT	НИНИНИНИНИ		RRRRRRRR		ŤŤŤ	<i>ו</i> ווֹ דּ
MMM	MMM	ŤŤŤ	НИНИНИНИНИ		RRRRRRRR		ŤŤŤ	iii
MMM	MMM	ŤŤŤ	ННН	ннн	RRR RR		ŤŤŤ	ili
MMM	MMM	ŤŤŤ	ННН	ннн	RRR RR		ήii	
MMM	MMM	ή††	HHH	HHH	RRR RR		111	LLL
MMM		 T T						LLL
	MMM		ННН	ННН	RRR	RRR	ŢŢŢ	rrr
MMM	MMM	III	HHH	ННН	RRR	RRR	ŢŢŢ	LLL
MMM	MMM	TTT	ННН	HHH	RRR	RRR	TTT	LLL
MMM	MMM	TTT	HHH	HHH	RRR	RRR	TTT	
MMM	MMM	TTT	HHH	HHH	RRR	RRR	TTT	LLLLLLLLLLLLLL
MMM	MMM	111	ННН	HHH	RRR	RRR	ŤŤŤ	

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MM MM MM MMM MMMM MMMM MMMM MMM MM MM MM	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	HH HHHHHH	GGGGGGG GGGGGGGG GG GG GG GG GG GG GG G	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	000000 00	NN NN NN NN NN NN NN NN NNNN NN NN NN NN	111111 11 11 11 11 11 11 11 11
		\$					

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> 999999 999999 99

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C 10 MTH\$GCONJG Table of contents - G COMPLEX+16 Conjugate 16-SEP-1984 01:26:15 VAX/VMS Macro V04-00 Page 0 HISTORY ; Detailed Current Edit His DECLARATIONS MTH\$GCONJG - return G COMPLEX*16 conjugate 51 58 89 (2) (3) (4) ; Detailed Current Edit History

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MODIFIED BY:

.TITLE MTH\$GCONJG - G COMPLEX*16 Conjugate
.IDENT /1-001/ ; File: MTHGCONJG.MAR ŎŎŌŎ COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. * ALL RIGHTS RESERVED. THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY * * * * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY * TRANSFERRED. * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT * 2Ó 21 CORPORATION. DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. 30 31 32 33 FACILITY: MATH LIBRARY ABSTRACT: This module contains routine MTH\$GCONJG: Return G COMPLEX*16 conjugate. 37 ŎŎŎŎ **VERSION: 1 HISTORY: AUTHOR:** Steven B. Lionel, 20-July-1979

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MTHSGCONJG
1-001
                                        - G COMPLEX*16 Conjugate 16-SEP-1984 01:26:15 VAX/VMS Macro V04-00 MTH$GCONJG - return G COMPLEX*16 conjuga 6-SEP-1984 11:23:32 [MTHRTL.SRC]MTHGCONJG.MAR;1
                                                                                                                                                                  (4)
                                                                       .SBTTL MTH$GCONJG - return G COMPLEX*16 conjugate
                                                         90
                                               0000
                                                        91
93
93
                                              0000
                                                            ;++
                                              0000
                                                            ; FUNCTIONAL DESCRIPTION:
                                              0000
                                                                      Returns the complex conjugate of COMPLEX*16 number (r,i). Result is (r,-i).
                                                        94
95
                                              0000
                                              0000
                                                        96
97
                                              0000
                                              0000
                                                              CALLING SEQUENCE:
                                                        98
                                              0000
                                                                      CALL MTH$GCONJG (result.wdc.r, arg.rdc.r)
                                                        99
                                              0000
                                              0000
                                                       100
                                              0000
                                                       101
                                                       102
                                              0000
                                                              INPUT PARAMETERS:
                                              0000
                                  8000000
                                                                                = 8
                                                                                                    : G COMPLEX*16 argument by reference.
                                                                      arg
                                                       104
                                              0000
                                                       105
                                                       106
                                              0000
                                                              IMPLICIT INPUTS:
                                              0000
                                                                      NONE
                                              0000
0000
0000
                                                       108
                                                       109
                                                              OUTPUT PARAMETERS:
                                                       110
                                  0000004
                                              0000
                                                       111
                                                                                                   ; G COMPLEX*16 result by reference
                                                                      result = 4
                                                       112
                                              0000
                                                              IMPLICIT OUTPUTS:
                                              0000
                                                       114
                                                                      NONE
                                              0000
                                                       115
                                                       116
                                              0000
                                                               COMPLETION CODES:
                                              0000
                                                                      NONE
                                                       118
                                              0000
                                              0000
                                                              SIDE EFFECTS:
                                              0000
                                                       1201234567890123345
112234567890123345
                                                                      Reserved Operand exception can occur.
                                              0000
                                              0000
                                              0000
                                              0000
                                              0000
                                              0000
                                       0000
                                              0000
                                                                       .ENTRY MTHSGCONJG
                                                                                                    ^M<>
                              08 AC DO 04 AC DO 1 80 50FD 1 60 52FD
                                              0002
                                                                      MOVL
                                                                                arg(AP), RO
                                                                                                                argument address
                                                                                result(AP), R1
                                                                      MOVL
                                                                                                               : result address
                                              000A
000E
0012
0013
0013
                                                                                (RO)+, (R1)+
(RO), (R1)
                            81
61
                                                                      MOVG
                                                                                                                real part
                                                                      MNEGG
                                                                                                               ; imaginary part
                                         04
                                                                      RET
                                                                      .END
```

```
H 10
MTH$GCONJG
                                           - G COMPLEX+16 Conjugate
                                                                                                 16-SEP-1984 01:26:15 VAX/VMS Macro V04-00 
6-SEP-1984 11:23:32 [MTHRTL.SRC]MTHGCONJG.MAR;1
Symbol table
                                                                                                                                                                            (4)
 ARG
                    = 00000008
MTH$GCONJG
                       0000000 RG
                                           01
RESULT
                    = 00000004
                                                                  Psect synopsis
PSECT name
                                           Allocation
                                                                      PSECT No.
                                                                                    Attributes
    ABS
                                           00000000
                                                                      00
                                                                             0.)
                                                                                    NOPIC
                                                                                               USR
                                                                                                       CON
                                                                                                                      LCL NOSHR NOEXE NORD
                                                                                                                                                   NOWRT NOVEC BYTE
                                                                                                               ABS
 _MTH$CODE
                                                                     ĎĬι
                                           00000013
                                                              19.)
                                                                              1.)
                                                                                               USR
                                                                                                       CON
                                                                                                               REL
                                                                                                                              SHR
                                                                                                                                      EXE RD
                                                                                                                                                   NOWRT NOVEC LONG
                                                              Performance indicators
Phase
                                  Page faults
                                                     CPU Time
                                                                          Elapsed Time
Initialization
                                                     00:00:00.08
                                                                          00:00:00.68
                                           108
                                                                          00:00:03.04
                                                      00:00:00.51
 Command processing
                                                      00:00:00.38
Pass 1
                                            65
                                             0
                                                     00:00:00.00
                                                                          00:00:00.00
Symbol table sort
Pass 2
                                            38
                                                     00:00:00.29
                                                                          00:00:00.73
Symbol table output
                                                      00:00:00.02
                                                                          00:00:00.01
                                                                         00:00:00.02
Psect synopsis output
                                                      00:00:00.02
Cross-reference output
                                                      00:00:00.00
                                                                          00:00:00.00
Assembler run totals
                                           246
                                                     00:00:01.30
                                                                          00:00:06.54
The working set limit was 900 pages.
1355 bytes (3 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 3 non-local and 0 local symbols.
135 source lines were read in Pass 1, producing 10 object records in Pass 2.
O pages of virtual memory were used to define 0 macros.
                                                             Macro library statistics !
Macro library name
                                                            Macros defined
                                                                           0
_$255$DUA28:[SYSLIB]STARLET.MLB:2
O GETS were required to define O macros.
```

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$:MTHGCONJG/OBJ=OBJ\$:MTHGCONJG MSRC\$:MTHGCONJG/UPDATE=(ENHS:MTHGCONJG)

There were no errors, warnings or information messages.

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